

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 October 2005 (06.10.2005)

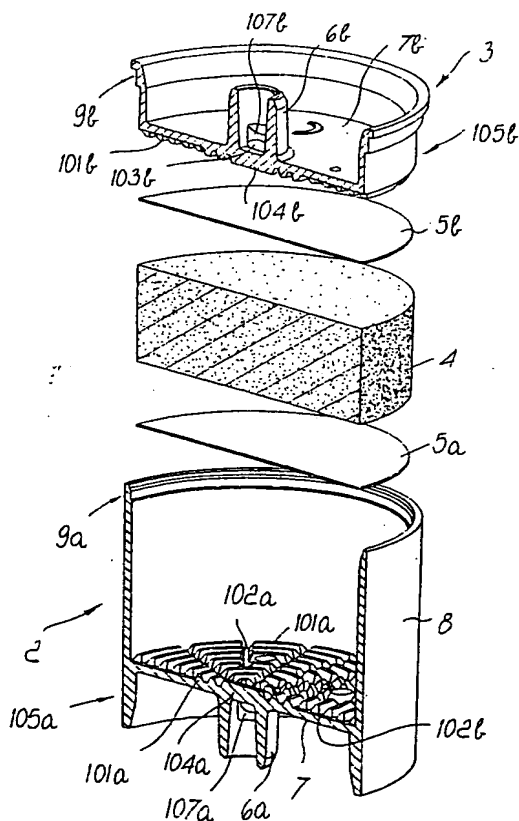
PCT

(10) International Publication Number
WO 2005/092160 A1

- (51) International Patent Classification⁷: **A47J 31/06**, 31/40, B65D 81/00
- (21) International Application Number:
PCT/EP2005/003037
- (22) International Filing Date: 22 March 2005 (22.03.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
04007293.6 26 March 2004 (26.03.2004) EP
04007294.4 26 March 2004 (26.03.2004) EP
04007295.1 26 March 2004 (26.03.2004) EP
04007296.9 26 March 2004 (26.03.2004) EP
- (71) Applicant (for all designated States except US): **ILLY-CAFFE'S.p.A.** [IT/IT]; Via Flavia 110, I-34147 Trieste (IT).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **SUGGI LIV-ERANI, Furio** [IT/IT]; Via G. Picciola, 4, I-34123 Trieste (IT). **MASTROPASQUA, Luca** [IT/IT]; Salita dei Montanelli, 3, I-34123 Trieste (IT). **VAN EEDEN, Frans** [NL/IT]; Via G. Meda, 11, 20136 Milano (IT). **DELLAPI-ETRA, Bruno** [IT/IT]; Via Sistiana, 104, I-34013 Duino Aurisina (IT).
- (74) Agent: **MODIANO, Guido**; Modiano & Associati, Via Meravigli, 16, I-20123 Milano (IT).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,

[Continued on next page]

(54) Title: INTEGRATED CARTRIDGE FOR EXTRACTING A BEVERAGE FROM A PARTICULATE SUBSTANCE



(57) Abstract: A cartridge (1) for extracting a beverage from a particulate substance (4) contained therein by means of water under pressure, the cartridge comprising: a main body comprising a cup portion (2) and a lid portion (3), the cup portion (2) comprising a base (7), a sidewall (8) and a rim (9a) opposed to the base (7), the lid portion (3) being fixedly attached to the rim (9a) of the cup portion so as to define an internal volume of the cartridge, the internal volume of the cartridge housing the particulate substance (4) comprised within filtering means (5a, 5b) for retaining the particulate substance (4) and for percolating fluid substances therethrough, the lid portion (3) comprising a lid port (6b) defining a first passage for percolation fluid substances, the base (7) of the cup portion (2) comprising a cup port (6a) defining a second passage for percolation fluid substances, characterized in that the base comprises a plurality of ridges (101a) directly formed thereon and protruding towards the internal volume of the cartridge (1), so as to support the filtering means (5a) and the particulate substance (4) and to define a fine canalization between the filtering means (5a) and the cup port (6a).



TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— with international search report